

## IN THE CLAIMS:

Please AMEND the claims and ADD new claims as indicated below:

1. (CURRENTLY AMENDED) A wavelength characteristic variable filter comprising:  
a filter that is arranged in a path of a collimated beam and having a diffraction unit that is movable in a direction substantially perpendicular to a direction of the collimated beam, wherein the filter has first and second filter portions with the diffraction unit between the first and second filter portions, and the collimated beam hits the first and second filter portions and the diffraction unit so that the filter provides a transmittance versus wavelength characteristic in which transmittance of the filter changes with wavelength; and  
a moving unit that moves the diffraction unit to thereby change the transmittance versus wavelength characteristic of the filter, wherein the collimated beam is not a spectral beam.

2. (PREVIOUSLY PRESENTED) The wavelength characteristic variable filter according to claim 1, wherein the first and second filter portions are made of film formed on a surface of the filter, and the diffraction unit is a slit formed between the first and second filter portions and having a pair of edges, wherein the slit is formed by removing a part of a film from the surface of the filter.

3. (PREVIOUSLY PRESENTED) The wavelength characteristic variable filter according to claim 2, further comprising:  
a plurality of the filters arranged in the path of the collimated beam, wherein the moving unit moves all or some of the slits simultaneously.

4. (ORIGINAL) The wavelength characteristic variable filter according to claim 3, wherein the slits of adjoining filters make a predetermined angle with each other.

5. (ORIGINAL) The wavelength characteristic variable filter according to claim 3, wherein the moving unit moves all the slits in one direction or moves each slit in a respective direction.

6. (CURRENTLY AMENDED) The wavelength characteristic variable filter according to claim 1, wherein  
the diffraction unit is a first diffraction unit,  
the filter further comprises a second diffraction unit, a third filter portion and a fourth filter

portion,

~~the filter has a plurality of the diffraction units and a plurality of filter portions,~~

the first and second diffraction units each have first and second edges, and the first and second edges are formed at a pitch of 1/4 or less of a beam diameter of the collimated beam, and

the first diffraction unit is formed between the first and second filter portions~~each diffraction unit is formed between two filter portions~~ with one of the first and second filter portions adjacent to the first edge of the ~~respective~~ first diffraction unit and the other of the first and second filter portions adjacent to the second edge of the ~~respective~~ first diffraction unit, and

the second diffraction unit is formed between the third and fourth filter portions with one of the third and fourth filter portions adjacent to the first edge of the second diffraction unit and the other of the third and fourth filter portions adjacent to the second edge of the second diffraction unit.

7. (ORIGINAL) The wavelength characteristic variable filter according to claim 1, wherein the moving unit moves the diffraction unit by using any one of an electromagnetic force driving mechanism, a thermal expansion driving mechanism, a piezoelectric effect driving mechanism, and an electrostatic force driving mechanism, or a combination thereof.

8. (ORIGINAL) The wavelength characteristic variable filter according to claim 3, wherein the filters have different wavelength characteristics.

9. (PREVIOUSLY PRESENTED) The wavelength characteristic variable filter according to claim 1, wherein

the first and second filter portions are reflection type filters, and

a direction from which light enters in the first and second filter portions and a direction towards which light is emitted out from the first and second filter portions are parallel.

10. (CURRENTLY AMENDED) The wavelength characteristic variable filter according to claim 21, further comprising an etalon board, wherein ~~the filter is an etalon filter in which the first and second filter portions are film~~ formed on the etalon board, and the diffraction unit is a slit between the first and second filter portions~~formed by the edges made in the film.~~

11. (CURRENTLY AMENDED) An apparatus comprising:

an optical amplifier including

a filter that is arranged in a path of a collimated beam and having a diffraction unit that is movable in a direction substantially perpendicular to a direction of the collimated beam, wherein the filter has first and second filter portions with the diffraction unit between the first and second filter portions, and the collimated beam hits the first and second filter portions and the diffraction unit so that the filter provides a transmittance versus wavelength characteristic in which transmittance of the filter with respect to a wavelength is set; and

a moving unit that moves the diffraction unit of the filter to a predetermined position between a center and an edge of the collimated beam to thereby change the transmittance versus wavelength characteristic of the filter, wherein the collimated beam is not a spectral beam.

12. (CURRENTLY AMENDED) An optical communications apparatus comprising:

a filter that is arranged in a path of a collimated beam and having a diffraction unit that is movable in a direction substantially perpendicular to a direction of the collimated beam, wherein the filter has first and second filter portions with the diffraction unit between the first and second filter portions, and the collimated beam hits the first and second filter portions and the diffraction unit so that the filter provides a transmittance versus wavelength characteristic in which transmittance of the filter with respect to a wavelength is set; and

a moving unit that moves the diffraction unit of the filter to a predetermined position between a center and an edge of the collimated beam, wherein the collimated beam is not a spectral beam.

13. (CURRENTLY AMENDED) An apparatus comprising:

a filter positioned in a path of a collimated light, the filter comprising first and second film portions with a slit between the first and second film portions so that the collimated light hits the first and second film portions and the slit, and diffraction of the collimated light by the slit in combination with characteristics of the first and second film portions causes the filter to thereby have a transmittance versus wavelength characteristic in which transmittance of the filter changes with wavelength; and

a moving unit moving the filter so that the slit moves substantially perpendicular to a travel direction of the collimated light to thereby change the transmittance versus wavelength characteristic of the filter, wherein the collimated light is not spectral light.

14. (PREVIOUSLY PRESENTED) An apparatus according to claim 13, further comprising:

a plurality of the filters arranged in the path of the collimated light, wherein the moving unit moves all or some of the filters simultaneously to thereby change a combined transmittance versus wavelength characteristic of the filters.

15. (PREVIOUSLY PRESENTED) An apparatus according to claim 14, wherein the slits of adjoining filters make a predetermined angle with each other.

16. (PREVIOUSLY PRESENTED) An apparatus according to claim 14, wherein the moving unit moves all or some of the filters so that all the slits of the moved filters move in one direction or so that the slit of each respective filter moves in a respective direction.

17. (NEW) The wavelength characteristic variable filter according to claim 1, wherein the first and second filter portions each have a same, non-zero transmittance versus wavelength characteristic over wavelengths in the collimated light.

18. (NEW) The wavelength characteristic variable filter according to claim 2, wherein the first and second filter portions each have a same, non-zero transmittance versus wavelength characteristic over wavelengths in the collimated light.

19. (NEW) The apparatus according to claim 11, wherein the first and second filter portions each have a same, non-zero transmittance versus wavelength characteristic over wavelengths in the collimated light.

20. (NEW) The apparatus according to claim 13, wherein the first and second film portions each have a same, non-zero transmittance versus wavelength characteristic over wavelengths in the collimated light.